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APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

FIG. 1

HindIII

pKK223-3 TTCACACAGGAACAGAAATTCCTGGGGATCCGTCGACCTGCAGCCAAGCTT

SEQ ID NO:180

pKK223-3N TTCACATAAGGAGGAAAAAaccatggGATCCG-----AAGCTT

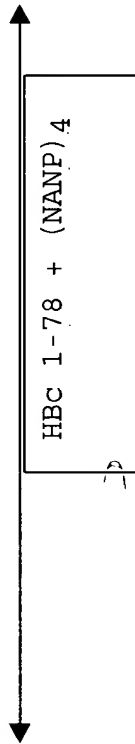
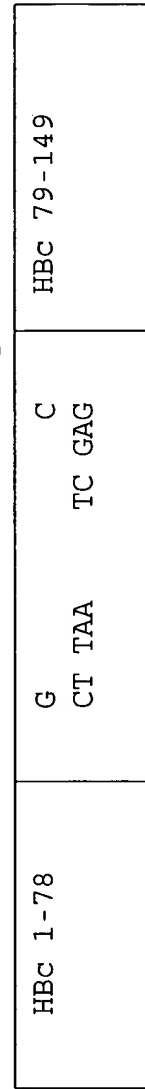
NcoI

SEQ ID NO:181

FIG. 2A

Cloning Step 1

I N A N P N A N P N A N P N A N P E L
 A ATT AAC GCT AAT CCG AAC GCT AAT CCG AAC GCT AAT CCG AAC GCT AAT CCG AAC GCT AAT CCG AAC GCT
 TTG CGA TTA GGC TTG CGA TTA GGC TTG CGA TTA GGC TTG CGA TTA GGC C



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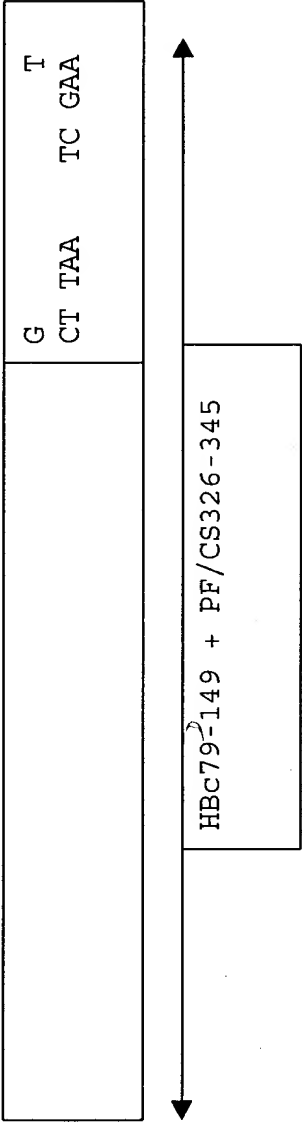
FIG. 2B

Cloning Step 2 -

I E Y L N K I Q N S L S T E W S P C S V T *

A ATT GAA TAT CTG AAC AAA ATC CAG AAC TCT CTG TCC ACC GAA TGG TCT CCG TGC TCC GTT ACC TAA AAG CT

CTT ATA GAC TTG TTT TAG GTC TTG AGA GAC AGG TGG CTT ACC AGA GGC ACG AGG CAA TGG ATT T



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FIG. 2C

Cloning Step 3

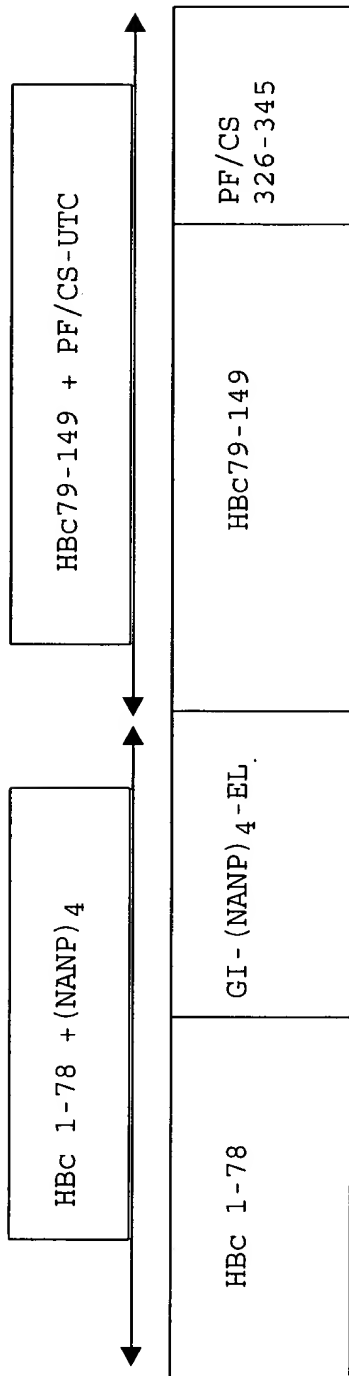


FIG. 3

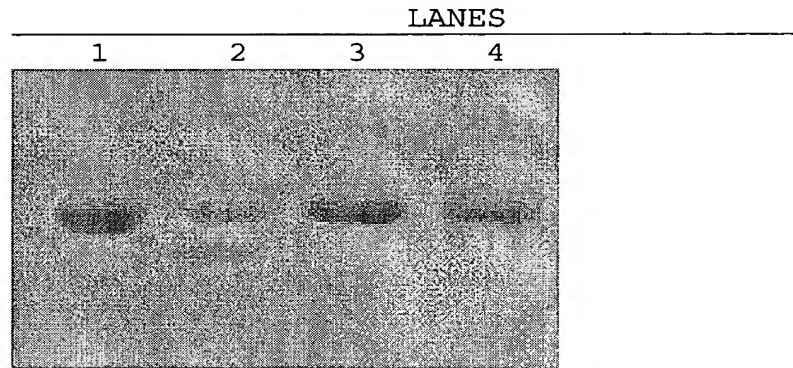
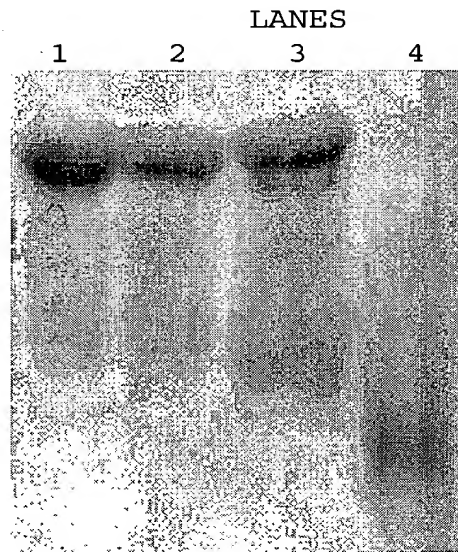


FIG. 4

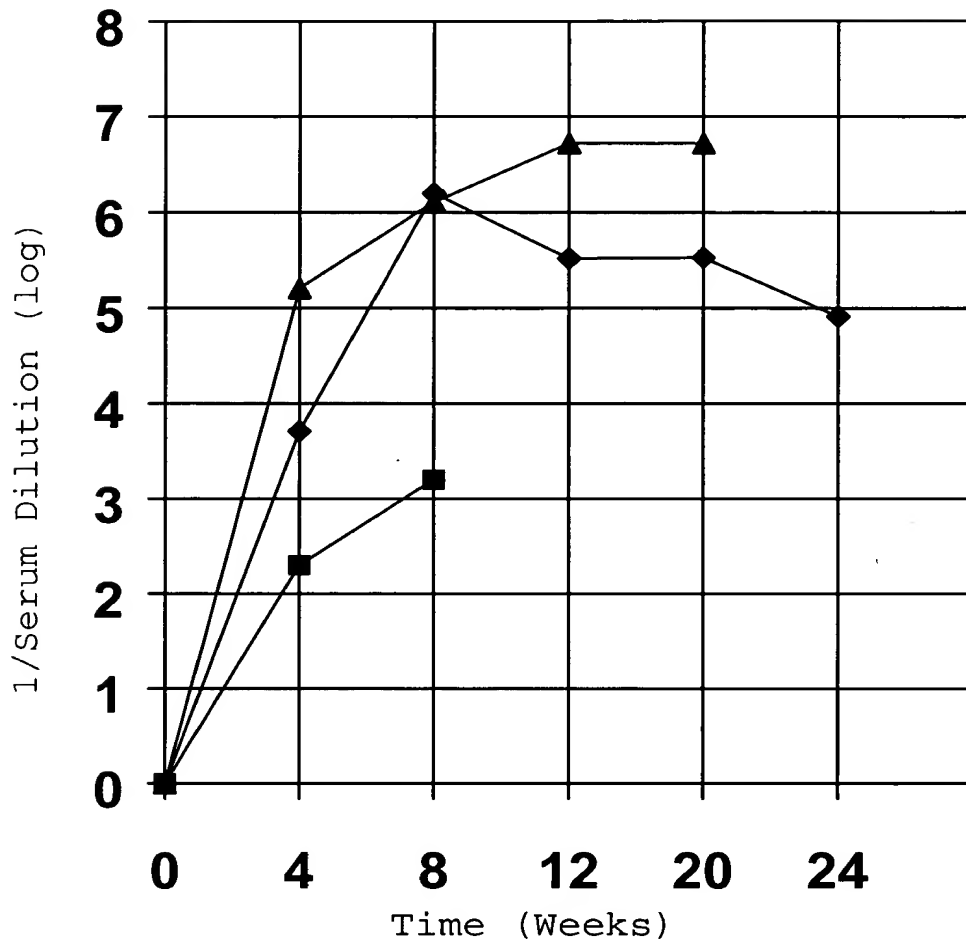


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	CLASS SUBCLASS

FIG. 3

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FIG. 5



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FIG. 6A

Ground Squirrel	mylfhlclvf acvpcptvqa sklclglwld
	1
HBC AYW	mdidpykefg atvellsflp sdfpfsvrdl ldtasalyre
HBC ADW	mdidpykefg atvellsflp sdfpfsvrdl ldtasalyre
HBC ADW2	mdidpykefg atvellsflp sdfpfsvrdl ldtasalyre
HBC ADYW	mdidpykefg atvellsflp sdfpfsvrdl ldtaaalryd
Woodchuck	mdidpykefg ssyqlnflp ldffpdlal vdtatalyee
Ground Squirrel	mdidpykefg ssyqlnflp ldffpdlal vdtaaaalyee
	41
HBC AYW	alespehcsp hhtalrqail cwgelmtlat wvgvnledpa
HBC ADW	alespehcsp hhtalrqail cwgelmtlat wvgnnlqdp
HBC ADW2	alespehcsp hhtalrqail cwgelmtlat wvgnnledpa
HBC ADYW	alespehcsp hhtalrqail cwgdmltlat wvgtnledpa
Woodchuck	eltgrehcsp hhtairgalv cwdeltklia wmsnitseq
Ground Squirrel	eltgrehcsp hhtairgalv cweeltrlit wmsentteev

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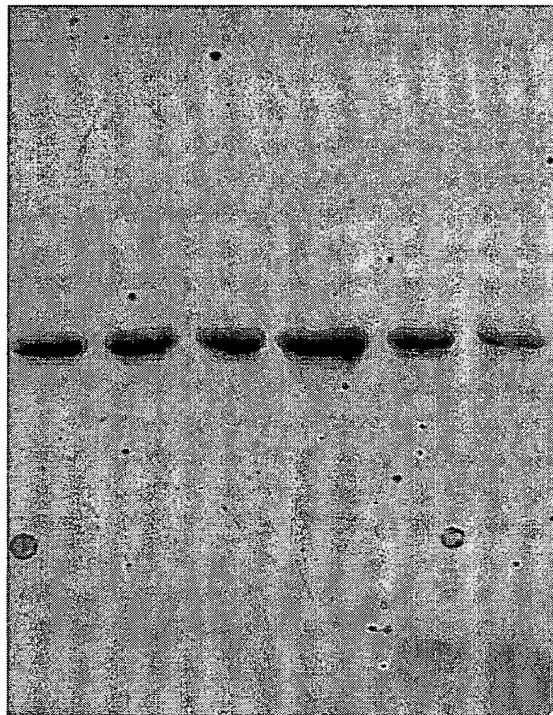
FIG. 6B

81	HBC AYW	srdlvsvyn	tnmglkfrql	lwfhiscltf	gretvleylv
	HBC ADW	srdlvsvyn	tnmglkfrql	lwfhiscltf	gretvleylv
	HBC ADW2	srdlvsvyn	tnvglkirql	lwfhiscltf	gretvleylv
	HBC ADYW	srdlvsvyn	tnvglkfrql	lwfhiscltf	gretvleylv
	Woodchuck	vrtiivnhvn	dtwglkvrqs	lwfhiscltf	gqhtvqeflv
	Ground Squirrel	rriivdhvnn	twglkvrqtl	wfhlsccltf	qhtvqeflvs
121	HBC AYW	sfgvwirtpp	ayrppnapil	stlpettvvr	rrgrsprrrt
	HBC ADW	sfgvwirtpp	ayrppnapil	stlpettvvr	rrdrgrsprrr
	HBC ADW2	sfgvwirtpp	ayrppnapil	stlpettvvr	rrdrgrsprrr
	HBC ADYW	sfgvwirtpp	ayrppnapil	stlpettvvr	rrgrsprrrt
	Woodchuck	sfgvwirtpa	pyrppnapil	stlpehtvir	rrggarasrs
	Ground Squirrel	fgvwirtpap	yrppnapils	tlpehtvirr	rggsraarsp
161	HBC AYW	psprrrrsqs	prrrrsqsre	sqc	
	HBC ADW	rtpsprrrrs	qsprrrrsqs	resqc	
	HBC ADW2	rtpsprrrrs	qsprrrrsqs	resqc	
	HBC ADYW	psprrrrsqs	prrrrsqsre	sqc	
	Woodchuck	prrrtpsprr	rrsqsprrrr	sqc	
	Ground Squirrel	rrrrtpsprr	rrsqsprrrr	qspasnc	

V12.Pf1 (C17A) C150

DAYS

0 7 14 0 7 14



A

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Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	